

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - ELECTRONICS

ELECTRONIC COMMUNICATION – II

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	_____ the other name for black and white TV a) Monochrome TV b) Color TV c) QLED d) Plasmag	K1	CO1
	2	_____ generator orchestrates the emission of pulse sequences to regulate the system at precise intervals. a) Induction b) Signal c) Synchronizing d) Electrical	K2	CO1
2	3	_____ allow microwave to pass in only one direction. a) RF emitter b) Varactor-triac c) Capacitor d) Ferrite emitter	K1	CO2
	4	A high power microwave pulse of the order of mega watts can be generated by _____ a) Travelling wave guide b) Magnetron c) Reflex klystron d) Gunn diode	K2	CO2
3	5	The transmission medium that exists between the transmitter and the receiver is _____ a) Coaxial cable b) Waveguide c) Optical fiber cable d) Wireless	K1	CO3
	6	An optical fiber is composed of _____ material. a) Glass b) Plastic c) Glass or plastic d) Copper	K2	CO3
4	7	The satellite employed as a relay to augment communication range is referred to as _____ Satellites a) Relay b) Communication c) Geosynchronous d) Repeater	K1	CO4
	8	The transmitter-receiver apparatus within the satellite is referred to as a _____. a) Relay b) Repeater c) Transponder d) Duplexer	K2	CO4
5	9	Space diversity is also known as _____ diversity a) Frequency b) Time c) Antenna d) Polarization	K1	CO3
	10	MIMO was initially developed in the year _____ a) 1970 b) 1990 c) 1985 d) 1960	K2	CO3

Cont...

SECTION - B (35 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Elaborate upon the methodologies delineated in the Properties of Colour.	K2	CO1
	(OR)			
	11.b.	Examine the distinctive characteristics of HDTV.		
2	12.a.	Narrate the operation of Travelling Wave Tubes in Microwave communications.	K2	CO2
	(OR)			
	12.b.	Identify how the Frequency range covered using in Horn Antenna.		
3	13.a.	Organize the various function of applications and benefits of Fiber.	K3	CO3
	(OR)			
	13.b.	Categorize the operational principles governing the connectors and splicing.		
4	14.a.	Develop the function analyzed in geosynchronous orbits.	K3	CO3
	(OR)			
	14.b.	Outline the features of VSAT.		
5	15.a.	Elaborate the issues of interfacing Wireless LAN Standards..	K4	CO4
	(OR)			
	15.b.	Justify the working input terminals in TV Remote Control.		

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Elucidate the function of the PAL Transmitter and Receiver, accompanied by a well-structured Block Diagram.	K2	CO1
2	17	Detailed about the methodology incorporate in Magnetrons.	K2	CO2
3	18	Illustrate the notification enrolled in Passive Optical Networks.	K3	CO3
4	19	Summarise the importance noted in communication subsystems.	K3	CO3
5	20	Elaborate the characteristics of Multiband OFDM.	K4	CO4